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P.2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Sternberg *et al.*

Serial No.: 09/479,467

Filed: January 06, 2000

For: POLYCYSTIC KIDNEY DISEASE GENE
HOMOLOGS REQUIRED FOR MALE MATING
BEHAVIOR IN NEMATODES AND ASSAYS
BASED THEREON

Group Art Unit: 1632

Examiner: P. Paras, Jr.

I hereby certify that this paper and the attached
papers are being deposited with the United
States Postal Service as first class mail in an
envelope addressed to:
Commissioner for Patents
Washington, D.C. 20231, on this date.

05/08/01

Date

Stephanie Seidman

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AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Responsive to the Office Action mailed November 8, 2000, please amend
the application as follows:

IN THE CLAIMS:

Please cancel claims 2, 3, 4, 6-8, 12-14, 18-20, 23, 24, 33-40, 41, 43-
48, 50-73, 78-81, 85-87 and 90-92 without prejudice or disclaimer.

Please replace claims 1, 5, 9, 15, 27, 29, 31, 32, 42, 49, 74, 76, 77,
82 and 83 with amended claims 1, 5, 9, 15, 27, 29, 31, 32, 42, 49, 74, 76,
77, 82 and 83 as follows:

1. (Amended) An isolated nucleic acid molecule, comprising a
sequence of nucleotides selected from the group consisting of:

- B¹
- a) a sequence of nucleotides that encodes a *Caenorhabditis* LOV-1
protein and that encodes the sequence of amino acids encoded by the
complement of the sequence of nucleotides set forth in SEQ ID No. 3;
 - b) a sequence of nucleotides that is the complement of a sequence
of nucleotides set forth in SEQ ID No. 3 and that encodes a *Caenorhabditis*
LOV-1 protein, or complement thereof;
 - c) a sequence of nucleotides that encodes a *Caenorhabditis* LOV-1
gene and that hybridizes along its full length to the full length of at least one of